

## SEQUENCE LISTING

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&lt;210&gt; 2

&lt;211&gt; 913

30 &lt;212&gt; PRT

<213> *Haemophilus influenzae* strain Rd KW20

&lt;400&gt; 2

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Gln Thr Ile Asp Gln Val Ile Arg Ser Ile Pro Gly Ala Phe Thr Gln
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 785 790 795 800  
 5 Gly Ser Arg Phe Lys Lys Asn Thr Leu Arg Arg Glu Asn Tyr Tyr Ala  
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 Val Lys Lys Thr Glu Asp Ile Lys Lys Gln Pro Ile Ile Leu Asp Leu  
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Phe

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&lt;210&gt; 3

&lt;211&gt; 2757

&lt;212&gt; DNA

25 <213> non typeable *Haemophilus influenzae* strain 3224

&lt;400&gt; 3

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&lt;210&gt; 4

&lt;211&gt; 918

&lt;212&gt; PRT

35 <213> non typeable *Haemophilus influenzae* strain 3224

&lt;400&gt; 4

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Gln Ile Asp Val Val Glu Lys Val Ile Ser Asn Asp Lys Lys Pro Phe
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 130 135 140  
 Ser Asn Phe Ser Gly Ala Ser Gly Ile Asn Ala Leu Ala Gly Ser Ala  
 145 150 155 160  
 15 Asn Phe Arg Thr Leu Ser Val Asn Asp Val Ile Thr Asp Asp Lys Pro  
 165 170 175  
 Phe Gly Ile Ile Leu Lys Gly Met Thr Gly Ser Asn Ala Thr Lys Ser  
 180 185 190  
 Asn Phe Met Thr Thr Ala Ala Gly Arg Lys Trp Leu Asp Asn Gly Gly  
 195 200 205  
 20 Tyr Val Gly Val Val Tyr Gly Tyr Ser Gln Arg Glu Val Ser Gln Asp  
 210 215 220  
 Tyr Arg Ile Gly Gly Gly Glu Arg Leu Ala Ser Leu Gly Gln Asp Ile  
 225 230 235 240  
 25 Leu Ala Lys Glu Lys Glu Lys Ile Phe Arg Asn Asp Gly Tyr Val Leu  
 245 250 255  
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 260 265 270  
 Cys Asn Thr Pro Ser Ser Leu Lys Asp Lys Ser Met Ser Thr Ser Cys  
 275 280 285  
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 290 295 300  
 Lys Glu Leu Leu Glu Asp Gly Lys Glu Pro Lys Asp Ile Glu Lys Leu  
 305 310 315 320  
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 325 330 335  
 Asn Lys Asp Gln Tyr Asp Val Ala Pro Ile Glu Pro Gly Ser Leu Gln  
 340 345 350  
 Ser Arg Ser Arg Ser His Leu Leu Lys Phe Glu Tyr Ser Asp Asp His  
 355 360 365  
 40 His Thr Leu Gly Ala Gln Ile Arg Thr Leu Asp Asn Lys Ile Gly Ser  
 370 375 380  
 Arg Lys Ile Glu Asn Arg Asn Tyr Gln Val Asn Tyr Asn Phe Asn Asn

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 Arg Ser Val Ile Leu Gln Pro Ser Gly Lys Gln Lys Phe Lys Thr Val  
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                          565                      570                      575  
 Lys Lys Ala Phe Asn His Ser Ala Thr Leu Ser Ala Glu Leu Ser Asp  
 25                      580                      585                      590  
 Tyr Phe Met Pro Phe Phe Thr Tyr Ser Arg Thr His Arg Met Pro Asn  
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                          645                      650                      655  
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                          675                      680                      685  
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                          705                      710                      715                      720  
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                          725                      730                      735



Asp Ala Ser Ser Arg Pro Arg Asn Ala Ser Lys Glu Glu Ile Leu Lys  
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 Gln Gly Tyr Gly Leu Ser Arg Ile Ser Met Leu Pro Lys Asp Tyr Gly  
                     755                    760                    765  
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                     770                    775                    780  
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 10                    805                    810                    815  
 Ile Tyr Tyr Ala Ile Lys Lys Thr Glu Glu Ile Lys Lys Gln Pro Ile  
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 Ile Leu Asp Leu His Val Ser Tyr Glu Pro Ile Lys Asp Leu Ile Ile  
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 Asp Ala Gly Asn Asp Ala Ala Ser Gln Arg Tyr Tyr Ser Ser Leu Asn  
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 Asp Ser Leu Ala Cys Lys Ile Asn Glu Ser Thr Cys Asn Asp Gly Ser  
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 Glu Lys Thr Val Leu Tyr Asn Phe Ala Arg Gly Arg Thr Tyr Ile Leu  
                     900                    905                    910  
 Ser Leu Asn Tyr Lys Phe  
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